

Atomic Orbital Overlap Engineering for 3D-2D Contacts & Record High-Performance 2D Transistors by Prof. Mayank Shrivastava (Indian Institute of Science, Bengaluru)



July 22, 2022 at 4 p.m.
YouTube Live Link:
<https://youtu.be/8sfFCxmVVkY>

For details

Prof. Mayank Shrivastava is a faculty member at the Indian Institute of Science, Bengaluru, and co-founder of AGNIT Semiconductors Pvt. Ltd. He is the recipient of the DST Swarnajayanti Fellowship (2021), VASVIK Award (2021), and Abdul Kalam Technology Innovation National Fellowship from INAE-SERB (2021). His work has resulted in over 175 peer-reviewed publications and 50 patents.

Metal (3D) to graphene/TMD (2D) contact/interface has been considered one of the most fundamental challenges to harnessing the full potential of 2-dimensional materials such as graphene or 2D semiconductors. This talk will cover how the fundamental understanding of the contact's quantum chemistry resulted in unique ways to engineer it.

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